AMENDMENT TO THE CLAIMS

1. (Currently amended) A method for measuring dielectric constant of body tissues under the skin and body impedance based on a method of frequency digital sampling and for evaluating body composition, ~~the steps~~ comprise~~ing~~ inputting by keyboard ~~the~~ a testee's serial number, height, age, gender, and parameter indicating whether or not an athlete; ~~testee~~ standing a testee with the testees feet on ~~the~~a measuring platform having a weighing sensor to measure body weight, ~~the~~ providing a body weight signal ~~coming~~ from the weighing sensor ~~being converted to the body weight frequency signal~~ ~~by~~to a weighing signal processing circuit; ~~the~~ generating oscillating frequency signals related to testee's impedances and dielectric constant of tissues under the skin ~~generating from~~ with a positive feedback RC oscillator circuit and ~~being connected~~connecting the positive feedback RC oscillator circuit to an MCU system for frequency digital sampling; calculating body fat content and total body water by software of the MCU system, and displaying body weight, body fat content and total body water on the display, wherein ~~the~~ said ~~the~~ method further comprises ~~the following steps of~~:

~~converting the signal coming from the weighing sensor to~~providing the body weight ~~frequency~~ signals from the weighing signal and processing circuit as frequency signals;

~~making~~connecting the positive feedback RC oscillator circuit ~~connected~~ with two ends of a capacitance grid sensors to generate an oscillating frequency related to dielectric constant of body tissues under the skin by positioning testee's feet soles to contact a capacitance grid sensor on the measuring platform;

~~making~~connecting the positive feedback RC oscillator circuit ~~connected~~ with two electrode plates or two groups of electrode plates on the measuring platform, and generate~~ing~~ ~~an~~ oscillating frequency signals related to body impedance by positioning the testee's feet soles to contact the two electrode plates or two groups of electrode plates within a certain area on the measuring platform;

introducing ~~the~~ switched capacitors with different capacitance values to ~~the~~ said positive

feedback RC oscillator circuit ~~to get~~ and obtaining several oscillating signals with non-fixed different frequencies related to body impedance;

~~inputing~~inputting the body weight frequency signals ~~through the I/O interface of the microprocessor~~ coming from the weighing signal processing circuit, the oscillating frequency signals related to dielectric constant of body tissues under the skin and body impedance signals corresponding to the non-fixed different frequencies from the switched capacitance through I/O interfaces of the MCU system;

~~through the software of the microprocessor~~ calculating from the signals provided to the I/O interface ~~the~~a ratio between ~~calculating~~ intracellular water and total body water through software of the MCU system; and

displaying the ratio between intracellular water and total body water ~~on the display~~.

2. (currently amended) The method according to claim 1, wherein: one end of the said capacitance grid sensor (Cm) in contact with testee's feet soles is connected with one end of a capacitor (Ca); and ~~the~~ other ends of the capacitance grid sensor and capacitor are respectively connected with ~~the~~an output end of one invertor and an input end of ~~the~~ another invertor; and the input end of the one invertor is connected with ~~the~~an output end of the another invertor; and wherein the oscillating frequency signals related to dielectric constant of body tissues under the skin ~~is~~are generated.

3. (currently amended) A method according to claim 1, wherein: the input end of one invertor is connected with the output end of the ~~other~~another invertor at a connection; and ~~between the joint of the two invertors and the input end of one invertor,~~ connecting ~~the~~a series-wound circuit comprise~~d~~ing ~~by~~a resistor (Ra) and body impedance ~~element~~ (Rm) between the connection and an input end of the one invertor, ~~is introduced;~~ and ~~the~~ two ends of ~~the~~a capacitor (Ca) are connected respectively with ~~the two invertors' two ends which are not connected with each other;~~an output end of the one invertor and an input end of the another invertor and wherein

oscillating frequency signals related to body impedance ~~is~~are generated.

4. (currently amended) A method according to claim 1, wherein: ~~the~~a body impedance ~~element~~ (Rm) is in a series connection with a first resistor Ra2 and then in parallel connection with a second resistor Ra1 to form a series-parallel circuit; ~~the~~ one end of the series-parallel circuit ~~in series-parallel connection~~ is connected ~~with the~~to an inverting ~~end~~terminal of ~~the~~a D trigger; and the another end of the series-parallel circuit is connected with ~~the~~a CD end, a CLK end, and a GND end of the D trigger; and wherein oscillating frequency signals related to body impedance ~~is~~are generated.

5. (currently amended) A method according to claim 1, comprising ~~the step of:~~ introducing a body impedance element (Rm) to said positive feedback RC oscillator circuit; switching and introducing capacitors C1, C2, ...Cn respectively to said positive feedback RC oscillator circuit; ~~getting~~and providing several oscillating signals with non-fixed different frequencies related to body impedance (Rm).

6. (currently amended) A body composition monitor apparatus for measuring dielectric constant of body tissues under the skin and body impedance based on a method of frequency digital sampling, comprising a measuring unit and a display unit, ~~which above two~~where the measuring unit and the display units comprises a measuring platform, a pair of electrode plates, a weighing sensor, a MCU system, a display, and a keyboard; wherein ~~the~~ said apparatus also includes a weighing signal processing circuit, ~~that converts the signal coming from weighing sensor to the body weight frequency signal,~~ a positive feedback RC oscillator circuit for measuring a dielectric constant of body tissues under the skin and body impedance, and ~~more than one~~a plurality of capacitance grid sensors providing dielectric constant signals of body tissues under the skin to said positive feedback RC oscillator circuit, wherein:

the electrode plates form electrodes for measuring body impedance of a person standing thereon and ~~is~~being connected ~~as a two end impedance element (Rm)~~ with ~~the~~

said positive feedback RC oscillator circuit to provide an impedance signal only to said positive feedback RC oscillator circuit; and

the ~~said~~ positive feedback RC oscillator circuit~~,~~ and the weighing signal processing circuit are in electrical connection with a microprocessor of the MCU System.

7. (cancelled)

8. (currently amended) Apparatus according to claim 6, wherein: in one connection mode of ~~the~~ said positive feedback RC oscillator circuit for measuring dielectric constant of body tissues under the skin, one end of ~~the~~one capacitance grid sensor (Cm) is connected with one end of a capacitor (Ca); ~~the~~ other ends of the one capacitor grid sensor Cm and the capacitor Ca are respectively connected with ~~the~~an output end of one invertor and an input end of the ~~an~~ other invertor; a resistor (Ra) is in series circuit connection with a body impedance (Rm), and ~~the other~~ ends of the series circuit are respectively connected with ~~the~~an input end and the output end of the one invertor; the input end of the one invertor is connected with ~~the~~an output end of the ~~other~~ another invertor.

9. (currently amended) Apparatus according to claim 6, wherein: in one connection mode of ~~the~~ said positive feedback RC oscillator circuit for measuring body impedance, ~~the~~an input end of one invertor is connected with the output end of ~~the~~ another invertor; connecting a series wound circuit comprising a resistor (Ra) and the body impedance (Rm) between the ~~joint~~ connection of the two invertors and ~~the~~an input end of the invertor~~,~~; ~~the~~a series-wound circuit comprise~~d~~ing ~~by~~a resistor (Ra) and a body impedance (Rm) is introduced; and ~~the two~~ ends of ~~the~~a capacitor (Ca) are connected respectively to an output end of the one invertor and an input end of the another invertor.

10. (currently amended) Apparatus according to claim 6, wherein: in one connection mode of the said positive feedback RC oscillator circuit for measuring body impedance, a body

impedance (Rm) is in series connection with a first resistor (Ra1) and ~~then~~ in parallel connection with a second resistor (Ra2) to form a series-parallel circuit; ~~the~~ one end of the series-parallel circuit ~~in series-parallel connection~~ is connected with ~~the~~an inverting end of ~~the~~a D trigger; and ~~the other~~a second end of the series-parallel circuit is connected with ~~the~~a CD end, a CLK end, and a GND end of the D trigger.

11-14. (cancelled)

15. (currently amended) Apparatus according to claim 6, wherein: ~~the~~ said ~~measuring~~ apparatus includes an infrared signal ~~emitting~~emitter ~~circuit~~; an electrical signal is input from ~~the~~a base electrode of a first audion (T1); ~~the~~ collectors of the first audion (T1) and a second audion (T2) are connected with one port of the infrared emitter; and ~~the other~~ another port of the infrared emitter is connected with a current-limiting resistor (R1); the infrared emitter ~~emits~~emitting a real-time infrared data signal; and an infrared receiver ~~receives~~receiving the infrared ~~instruction~~data signal ~~emitted by the said display apparatus,~~ which is converted to an electrical signal and ~~then~~ transmitted from the infrared receiver to ~~the~~a base electrode of a third audion (T3); ~~the~~a collector of the third audion (T3) is connected with ~~the~~an input level of a decoder; ~~the~~an output level of the decoder is connected with the MCU System. ~~of the measuring apparatus.~~

16. (currently amended)Apparatus according to claim 6, wherein: ~~the~~ said display ~~apparatus~~unit includes an infrared emitter comprising an infrared signal transmitting circuit; a receiver receiving the infrared signal and providing an electrical signal that is transmitted from the infrared receiver to ~~the~~a base electrode of a first audion (T7); ~~the~~a collector of the first audion (T7) is connected with ~~the~~an interface of the MCU system of the display ~~apparatus~~unit; the interface of the MCU system of the display ~~apparatus~~unit sends electrical signal to ~~the~~an input interface of an encoder, ~~whose~~the encoder having an output interface ~~is~~ connected with ~~the~~a base electrode of a second audion (T5); ~~the~~ collectors of the second audion (T5) and a third audion

(T6) are connected with one port of the infrared emitter; and ~~the other~~ port of the infrared emitter is connected with a current-limiting resistor (R4); whereby the infrared emitter emits infrared instruction signals.